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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,087	08/21/2003	Alan Warwick	13768.433	7259
47973 7590 02/05/2008 WORKMAN NYDEGGER/MICROSOFT 1000 EAGLE GATE TOWER			EXAMINER	
			FRITZ, BRADFORD F	
60 EAST SOUTH TEMPLE SALT LAKE CITY, UT 84111			· ART UNIT	PAPER NUMBER
			2141	
			MAIL DATE	DELIVERY MODE
			02/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
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Office Action Summary	10/645,087	WARWICK ET AL.			
omee Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication app	Bradford F. Fritz	2141			
Period for Reply	lears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) M cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 24 Ju	<u>ıly 2007</u> .				
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL. 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) <u>1-8,10-22 and 24-37</u> is/are pending in	the application.				
4a) Of the above claim(s) is/are withdray					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-8, 10-22, and 24-37 is/are rejected					
7) Claim(s) is/are objected to					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	ır.				
10) The drawing(s) filed on is/are: a) acc		to by the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct	ion is required if the drawi	ng(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex	caminer. Note the attach	ned Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document		s. § 119(a)-(d) or (f).			
2. Certified copies of the priority document		Application No.			
Copies of the certified copies of the prior application from the International Bureau	rity documents have be				
* See the attached detailed Office action for a list		ot received.			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) \intervie	w Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	lo(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date J.S. Patent and Trademark Office	5)	of Informal Patent Application			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 11/21/2007, with respect to the rejection(s) of claim(s) 1-8, 10-22, and 24-37 have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Lamb (6,892,264) and Blumenau et al. (6,295,575).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8, 10-22, and 24-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb (6,892,264) in view of Blumenau et al. (6,295,575), hereinafter referred to as Blumenau.
- 4. Regarding claims 1 and 15, Lamb disclosed an act of identifying a set of the one or more devices that can be accessed (column 3, lines 16-30 and column 63, lines 60-67, Fig. 1); an act of generating a target that identifies the set of the one or more devices (column 3, lines 16-30 and column 63, lines 60-67), and that includes at least

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one corresponding device identifier (column 3, lines 16-30 and column 63, lines 60-67); an act of associating client authorization information identified by the network provider with the target that identifies set of the one or more devices (column 3, lines 42-50 and column 63, lines 60-67); and an act of assigning the target to a port through a protocol-independent port driver at the network provider (column 63, lines 60-67 and column 59, lines 1-12).

However, Lamb does not explicitly teach wherein the act of identifying a set of the one or more devices that can be accessed locally or over a network, the set being based on client identity and consisting of only devices to which the client has been assigned and to which the client is to be provided access. Blumenau teaches the act of identifying a set of the one or more devices that can be accessed locally or over a network (column 2, lines 38-67 and column 8, lines 1-12, Fig. 11), the set being based on client identity and consisting of only devices to which the client has been assigned and to which the client is to be provided access (column 2, lines 38-67 and column 8, lines 1-12, Fig. 11). It would have been obvious to one of ordinary skill in the art at the time of the invention to includes the features as taught by Blumenau in the system of Lamb because both are from the same field of endeavor of storage area networks and in order to restrict the set of volumes that can be seen by any one host because restricted access is desirable for security of private data and in order to speed up the boot process since a only a limited number of volumes need to be reported to which the requester has access (column 1, lines 44-57).

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- 5. Regarding claims 2 and 16, Lamb disclosed wherein the at least one of the one or more devices can be accessed locally through a local access protocol (column 19, lines 20-27).
- 6. Regarding claims 3 and 17, Lamb disclosed wherein the at least one of the one or more devices is a network device that can be accessed on a network through a network access protocol (column 19, lines 20-27).
- Regarding claims 4 and 18, Lamb disclosed wherein the act of identifying one or more devices further includes an act of creating one or more devices that can be accessed over the network (column 19, lines 20-27 and Fig. 1).
- 8. Regarding claims 5 and 19, Lamb disclosed wherein the act of creating one or more devices includes an act of identifying a at least one of a partition and file (column 63, lines 5-25 and column 74, lines 1-14), wherein the at least one of a partition and file represents at least a portion of one of the one or more devices (column 63, lines 5-25 and column 74, lines 1-14), and wherein the at least one of a partition and file can be configured by the network provider to provide the client modifiable access to the portion of the one of the one or more devices (column 63, lines 5-25 and column 74, lines 1-14).
- 9. Regarding claims 6 and 20, Lamb disclosed an act of providing client access to one or more of a port (column 63, lines 60-67 and column 59, lines 1-12), a WWN (column 31, lines 55-65), and a portal through the protocol-independent port driver (column 59, lines 5-15), such that the protocol-independent port driver is accessed

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through one or more protocol-dependent mini-ports (column 63, lines 60-67 and column 59, lines 5-15).

- 10. Regarding claims 7 and 21, Lamb disclosed wherein the protocol-independent port driver and one or more protocol-dependent mini-port drivers are managed by the centralized service (column 63, lines 60-67 and column 59, lines 5-15), and wherein the one or more protocol-dependent miniport drivers plug-in to the protocol-independent port driver (column 63, lines 60-67 and column 59, lines 5-15).
- 11. Regarding claims 10 and 24, Lamb disclosed wherein the virtual SCSI device is a storage device (column 45, lines 4-20), and the network comprises a storage area network (column 45, lines 4-20).
- 12. Regarding claims 11 and 25, Lamb disclosed wherein the storage device is one or more of an internal or external magnetic storage medium, an optical storage medium, and a tape backup drive.
- 13. Regarding claims 12 and 26, Lamb disclosed wherein the network provider manages one or more targets, one or more drivers, and authentication information for one or more clients through a centralized directory service (column 63, lines 60-67 and column 59, lines 1-12).
- 14. Regarding claims 13 and 27, Lamb disclosed wherein the network device identifier is identified by a target name and a LUN that has been assigned to the at least one device by the centralized directory service (column 63, lines 60-67 and column 59, lines 1-12).

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15. Regarding claims 14 and 28, Lamb disclosed wherein the logical unit number refers to one or more of a device, a plug-and-play identifier for a device (abstract), a global unique identifier for a device; a device driver that interfaces with a device (column 63, lines 60-67 and column 59, lines 5-15); and at least one of a partition and file that represents a portion of a device (column 63, lines 5-25 and column 74, lines 1-14).

Regarding claim 29, Lamb disclosed an act of identifying a set of the one or more 16. devices that can be accessed (column 3, lines 16-30 and column 63, lines 60-67, Fig. 1); an act of generating a target that identifies the set of the one or more devices (column 3, lines 16-30 and column 63, lines 60-67), and that includes at least one corresponding device identifier (column 3, lines 16-30 and column 63, lines 60-67); an act of associating client authorization information identified by the network provider with the target that identifies the of the one or more devices (column 3, lines 42-50 and column 63, lines 60-67); and a step for exposing the set of one or more devices to the client through a specific one of a network port (column 63, lines 60-67 and column 59, lines 1-12), a WWN (column 31, lines 55-65), and a portal, such that the client can access the set of one or more device identified by the target when the client has access to the specific one of a network port (column 63, lines 60-67 and column 59, lines 1-12), a WWN (column 31, lines 55-65), and portal, and when the client presents the associated client authorization to the network provider (column 3, lines 42-50 and column 63, lines 60-67).

However, Lamb does not explicitly teach wherein the act of identifying a set of the one or more devices that can be accessed locally or over a network, the set being

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based on client identity and consisting of only devices to which the client has been assigned and to which the client is to be provided access. Blumenau teaches the act of identifying a set of the one or more devices that can be accessed locally or over a network (column 2, lines 38-67 and column 8, lines 1-12, Fig. 11), the set being based on client identity and consisting of only devices to which the client has been assigned and to which the client is to be provided access (column 2, lines 38-67 and column 8, lines 1-12, Fig. 11). It would have been obvious to one of ordinary skill in the art at the time of the invention to includes the features as taught by Blumenau in the system of Lamb because both are from the same field of endeavor of storage area networks and in order to restrict the set of volumes that can be seen by any one host because restricted access is desirable for security of private data and in order to speed up the boot process since a only a limited number of volumes need to be reported to which the requester has access (column 1, lines 44-57).

- 17. Regarding claim 30, Lamb disclosed an act of assigning the target to a port through a protocol-independent port driver at the network provider (column 63, lines 60-67 and column 59, lines 5-15); and an act of providing client access to the specific one of a port, a WWN, and a portal through the protocol independent port driver (column 63, lines 60-67 and column 59, lines 5-15), such that the protocol-independent port driver is accessed through one or more protocol-dependent mini-ports (column 63, lines 60-67 and column 59, lines 5-15).
- 18. Regarding claim 31, Lamb disclosed wherein the client is provided access to the specific one of a port, a WWN (column 63, lines 60-67 and column 59, lines 5-15), and

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a portal by virtue of being authenticated at one or more of a local centralized service provider, and a remote authentication database (column 63, lines 60-67 and column 59, lines 5-15).

19. Regarding claim 32, Lamb disclosed an act of identifying one or more device identifiers corresponding to one or more storage devices on a storage service provider (column 3, lines 16-30 and column 63, lines 60-67, Fig. 1), wherein at least one of the one or more storage devices are represented by at least one of a partition and a file (column 63, lines 5-25 and column 74, lines 1-14); an act of receiving from a centralized directory service a modifiable client resource that identifies client authorization to access the storage device (column 3, lines 42-50 and column 63, lines 60-67), and a portion of the storage device that the client can access (column 3, lines 42-50 and column 63, lines 60-67); an act of creating a target containing one or more logical unit numbers that have been assigned to the identified device identifiers (column 63, lines 60-67 and column 59, lines 1-12), wherein access to the target is provided according to the modifiable client resource (column 3, lines 42-50 and column 63, lines 60-67); and an act of providing the client computer access to the storage device through a clientrestricted port on the storage service provider (column 3, lines 42-50 and column 63, lines 60-67), such that if the client has access to the client-restricted port (column 3, lines 42-50 and column 63, lines 60-67), the client can access the storage device by providing the storage service provider with client authorization (column 3, lines 42-50 and column 63, lines 60-67).

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However, Lamb does not explicitly teach wherein the act of identifying a set of the one or more devices that can be accessed locally or over a network, the set being based on client identity and consisting of only devices to which the client has been assigned and to which the client is to be provided access. Blumenau teaches the act of identifying a set of the one or more devices that can be accessed locally or over a network (column 2, lines 38-67 and column 8, lines 1-12, Fig. 11), the set being based on client identity and consisting of only devices to which the client has been assigned and to which the client is to be provided access (column 2, lines 38-67 and column 8, lines 1-12, Fig. 11). It would have been obvious to one of ordinary skill in the art at the time of the invention to includes the features as taught by Blumenau in the system of Lamb because both are from the same field of endeavor of storage area networks and in order to restrict the set of volumes that can be seen by any one host because restricted access is desirable for security of private data and in order to speed up the boot process since a only a limited number of volumes need to be reported to which the requester has access (column 1, lines 44-57).

- 20. Regarding claim 33, Lamb disclosed wherein centralized directory service receives client access information from at least one of a local and remote database (column 37, lines 2-15).
- 21. Regarding claim 34, Lamb disclosed receiving at the storage service provider a client computer request to access at least one of the one or more storage devices, wherein the client computer request is received through a protocol dependent mini-port (column 63, lines 60-67 and column 59, lines 5-15); receiving client authorization; and

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upon recognizing that the client authorization corresponds with the requested at least one of the one or more storage devices, and that the client is authorized to access the target (column 63, lines 60-67 and column 59, lines 1-12); providing the client computer with access to the at least one of the one or more storage devices in the target (column 63, lines 60-67 and column 59, lines 1-12).

- 22. Regarding claim 35, Lamb disclosed wherein the client-restricted port is managed by the centralized service and a protocol-independent port driver that receives network traffic through one or more protocol-dependent mini-port drivers (column 63, lines 60-67 and column 59, lines 5-15).
- 23. Regarding claim 36, Lamb disclosed wherein the one or more protocol-dependent mini-port drivers are plug-ins to the protocol-independent port driver (column 63, lines 60-67 and column 59, lines 5-15).
- Regarding claim 37, Lamb disclosed wherein at least one of the one or more mini-port drivers communicates through one or more of an Ethernet, Token Ring, USB, fiber channel, or wireless connection protocol (column 2, lines 50-60 and column 22, lines 30-46).
- Claims 9 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb (6,892,264) in view of Blumenau et al. (6,295,575), further in view of Kuik (7,165,258).
- Regarding claims 9 and 23, Lamb disclosed wherein the at least one device is a virtual SCSI device (column 63, lines 60-67 and column 59, lines 5-15). However Lamb does not explicitly teach that the device can be accessed through an iSCSI protocol.

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Kuik teaches using the iSCSI protocol to access a device (column 5, lines 10-25). It would have been obvious to one of ordinary skill in the art at the time of the invention to include the use of the iSCSI protocol as taught by Kuik in the system of Lamb in view of Blumenau because all are from the same field of endeavor of accessing storage area networks and in order to map the SCSI model over the TCP model (column 5, lines 20-25).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradford F. Fritz whose telephone number is 571-272-3860. The examiner can normally be reached on 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DE.

ANDREW CALDWELL SUPERVISORY PATENT EXAMINER

andrew Callle